

AMENDMENTS TO THE CLAIMS

Claims 1-3 (canceled)

Claim 4 (currently amended) A chemically defined medium ~~according to claim 1~~, said medium suitable for adaptation and growth of immortalized mammalian cells in culture to high cell densities, said medium comprising, sodium chloride, 3-5 g/L; potassium chloride, 0.2-0.4 g/L; , HEPES, 5-7 g/L; glucose (dextrose), 3.5-5.5 g/L; biotin, 0.000005-0.000025 g/L; ascorbic acid, 0.002-0.004 g/L; pantothenate, 0.002-0.006 g/L; choline, 0.002-0.006 g/L; folate, 0.002-0.006 g/L; inositol, 0.005-0.02 g/L; niacinamide, 0.002-0.006 g/L; pyridoxal, 0.002-0.006 g/L; riboflavin, 0.0002-0.0006 g/L; thiamine, 0.002-0.006 g/L; cyanocobalamin, 0.000005-0.000025 g/L; oxaloacetic acid, 0.1-0.4 g/L; alanine, 0.015-0.035 g/L; asparagine, 0.01-0.035 g/L; arginine, 0.06-0.10 g/L; aspartate, 0.02-0.04 g/L; cysteine, 0.3-0.5 g/L; cystine, 0.05-0.2 g/L; glutamine, 0.8-1.5 g/L; glutamate, 0.06-0.09 g/L; glycine, 0.02-0.04 g/L; histidine, 0.03-0.05 g/L; isoleucine, 0.05-0.25 g/L; leucine, 0.05-0.25 g/L; lysine, 0.05-0.25 g/L; methionine, 0.02-0.04 g/L; phenylalanine, 0.055-0.075 g/L; - proline, 0.03-0.05 g/L; serine, 0.03-0.055 g/L; threonine, 0.07-0.15 g/L; tryptophan, 0.005-0.025 g/L; tyrosine, 0.05-0.15 g/L; valine, 0.094 g/L; sodium selenate, 0.0000005-0.000060 g/L; magnesium sulfate, 0.05-0.2 g/L; potassium chloride, 0.15-0.45 g/L; sodium phosphate, 0.075-0.2 g/L; potassium nitrate, 0.00005-0.00009 g/L; calcium chloride, 0.08-0.25 g/L; sodium pyruvate 0.05-0.4 g/L; insulin, 0.05-2 g/L; hydrocortisone, 20-80 µg/L; linoleic acid, 1-100 mg/L; ethanolamine, 5-25 µg/L; sodium bicarbonate, 1-5 g/L; APO transferrin or ferric citrate, 1-10 mg/L; Pluronic F68, 0.2-2 g/L; sodium hydroxide, 0.3-0.9 g/L; mycophenolic acid, 0.1-2 mg/L; hypoxanthine, 2-5 mg/L; xanthine; 10-200 mg/L; sodium bicarbonate 1.5-4.5 g/L.

Claims 5-18 (canceled)

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Claim 19 (new) The chemically defined medium of claim 4 wherein the medium is suitable for growth of immortalized mammalian cells in culture to cell densities of at least 4.5×10^6 cells/ml.

Claim 20 (new) The chemically defined medium of claim 4 wherein the immortalized mammalian cells are the myeloma cell line Sp2/0 or derivatives thereof.